

and sport science at UNC-CH and study leader. "Many clinicians are not following the medical guidelines that players should be symptom-free for several days before returning." (Emphases added).

142. A 2003 study partially authored by the aforementioned Dr. Kevin Guskiewicz ("Guskiewicz") of UNC analyzed data from almost 2,500 retired NFL players and found that 263 of the retired players suffered from depression. The study found that having three or four concussions meant twice the risk of depression as never-concussed players and five or more concussions meant a nearly threefold risk.

143. In November of 2003, Guskiewicz was scheduled to appear on HBO's "Inside the NFL" to discuss his research. Pellman, who was also going to be on the show, called Guskiewicz. "I had never spoken with him before, and he attacked me from the get-go," Guskiewicz said. "He questioned whether it was in my best interest to do the show. He was a bull in a china shop." **On the program, Pellman said unequivocally, "[w]hen I look at that study, I don't believe it." (Emphases added).**

144. In 2005, Guskiewicz did a follow-up to his 2003 study and found that retired NFL players who sustained three or more concussions had a fivefold greater likelihood of suffering Mild Cognitive Impairment ("MCI") than retired NFL players who had no history of concussions. Guskiewicz based his conclusions on a survey of over 2,550 former NFL players. **Dr. Mark Lovell ("Lovell") of the NFL's MTBI Committee asserted that Guskiewicz's study lacked "scientific rigor" and that one couldn't tell anything from a survey.**

145. **"Pellman's committee has repeatedly questioned and disagreed with the findings of researchers who didn't come from their own injury group," said Julian Bailes, Chairman of Neurosurgery at West Virginia University.**

146. The MTBI Committee decided to respond to these types of studies by presenting **biased research** derived from its ongoing survey of retired NFL players. ESPN The Magazine described what happened:

In October 2003, Pellman and members of his committee published the first of a long-running series on concussions in *Neurosurgery*, a scholarly journal edited by Mike Apuzzo, the New York Giants' neurosurgical consultant. The committee's earliest studies used crash test dummies to reenact helmet blows. Later, the group decided to explore the ill effects of multiple concussions, and Pellman charged one of its members, Mark Lovell, head of the University of Pittsburgh Medical Center's Sports Medicine Concussion Program, to oversee the collection and analysis of leaguewide data. Pellman chose Lovell because he had conducted neuropsychological tests for the Steelers as early as 1993. And in 1995, Lovell began to run the NFL's neuropsychology program, which encouraged teams to gather data to help decide when to return players to games.

Using the information they would obtain, Pellman, Lovell and the committee planned to look at baseline results and identify a normal range of scores for uninjured NFL players. Then, comparing postinjury scores to baseline data would show the effects of concussions. Comparing data from players with multiple concussions to that of all injured players would show whether concussive effects changed as injuries accumulated.

A lot was riding on the analysis. The committee had never imposed recommendations on team medical staffs. **But this was the first study ever to analyze the brain function of NFL athletes. If it showed that concussions were significantly impairing players, the league might be forced to institute new rules for evaluating and treating head injuries.** Pellman and Lovell both say they invited all teams to participate in the research (Lovell says 11 teams elected to join the study) and tried to collect as many results as they could. As Lovell puts it, "More data is always better." **Several of the doctors involved, however, tell a different story.** [William]

Barr [a neuropsychologist at Long Island Jewish Hospital], for example, conducted 217 baseline tests from 1996 to 2001. Periodically, he forwarded results to the league, but at the time Barr learned the committee was planning to publish its results, he had sent only 149. Barr remembers finding Pellman in the Jets' training room in 2003 and saying, "Elliot, I haven't sent data for a year." **According to Barr, Pellman didn't want the additional tests.** "I don't want the data to be biased because I'm with the Jets," Barr recalls him saying, suggesting that additional results would skew the data because the Jets would be overrepresented in the sample. **That made no sense to Barr. A scientific study should include, or at least address, all available data.**

Pellman denies this conversation ever took place. "Bill Barr was a consultant for the Jets who tested individual players to help us make decisions," he says. "I did not discuss the committee's research with him." **Whoever is right, the fact is the group didn't have all of Barr's data for its paper.**

Barr's wasn't the only research that didn't make the cut. Over the period covered by the committee's research, Christopher Randolph, a Chicago neuropsychologist, collected baselines for 287 Bears players. **He says Lovell never asked for his data, either.**

Nor did the committee seek complete data from John Woodard, neuropsychologist for the [Atlanta] Falcons and associate psychology professor at the Rosalind Franklin University of Medicine and Science in North Chicago. According to Woodard, in December 2003, Lovell said the league was pressuring him to compile team results. "I was asked to provide data on only concussed players," **Woodard says. "I had data for slightly more than 200 baseline evaluations. I don't know why I was not asked for them."**

In 2004, Lovell also asked Richard Naugle, consultant to the Browns and head neuropsychologist at the Cleveland Clinic, for data on just the players who had already suffered concussions, according to an e-mail Naugle wrote to a colleague in March 2005. Naugle declined to comment for this story, citing a confidentiality deal between his medical group and the NFL, but The

Magazine has obtained a copy of that message. "I don't have that sorted out from the results of other testing," Naugle wrote of the request. "I explained that and added that if he could name players, I could send data on those individuals. I recall sending him data on two or three players ... I have a few hundred baselines."

This means Pellman, Lovell and their colleagues didn't include at least 850 baseline test results in their research—more than the 655 that ultimately made it into their 2004 *Neurosurgery* paper. At best, their numbers were incomplete. At worst, they were biased.

Pellman, Lovell and their colleagues published their sixth paper in *Neurosurgery* in December 2004. It examined baseline data on 655 players and results for 95 players who had undergone both baseline testing and postconcussion testing. It concluded that NFL players did not show a decline in brain function after suffering concussions. Further analysis found no ill effects among those who had three or more concussions or who took hits to the head that kept them out for a week or more. **The paper didn't explain where the players in the groups came from specifically or why certain players were included and hundreds of others were not. Neither Pellman nor Lovell has provided those details since.** (Emphases added).

147. Scientists concurred with this assessment. As the ESPN The Magazine article noted:

The decision to publish the paper was controversial. "I highly doubt this study would have seen the light of day at this journal were it not for the subject matter of NFL players," says Robert Cantú, chief of neurosurgery and director of sports medicine at Emerson Hospital in Concord, Mass., and a senior editor at *Neurosurgery*. "The extremely small sample size and voluntary participation suggest there was bias in choosing the sample. The findings are extremely preliminary at best, and no conclusions should be drawn from them at this time."

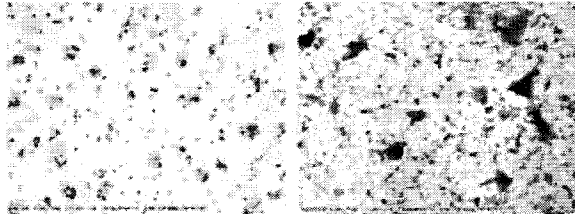
One of the scientists who reviewed the committee's work is equally blunt. **"They're basically trying to prepare a defense for when one of these players sues," he says. "They are trying to say that what's done in the NFL is okay because in their studies, it doesn't look like bad things are happening from concussions. But the studies are flawed beyond belief."** (Emphases added).

148. Guskiewicz was also quoted as saying, **"[t]he data that hasn't shown up makes their work questionable industry-funded research."** (Emphases added).

149. Pellman was not the only NFL hired gun peddling disinformation about head impacts or concussions and brain injuries. Casson and Viano of the NFL's MTBI Committee were playing a similar role, assisted by Lovell.

150. Between 2005 and 2007, Omalu and Dr. Robert Cantu ("Cantu"), Co-Director for the Center for the Study of Traumatic Encephalopathy ("CSTE") at the Boston University School of Medicine ("BUSM"), examined the brain tissue of three deceased NFL players: (a) Mike Webster ("Webster") of the Pittsburgh Steelers, who died of heart failure at the age of 50; (b) Terry Long ("Long") of the Pittsburgh Steelers, who died at 45 after drinking antifreeze; and (c) Andre Waters ("Waters") of the Philadelphia Eagles and Arizona Cardinals, who committed suicide at the age of 44. All three of these individuals suffered multiple concussions during their respective NFL careers. All three exhibited symptoms of sharply deteriorated cognitive functions, paranoia, panic attacks, and depression. In articles published in Neurosurgery in 2005 and 2006, Omalu found that Webster's and Long's respective deaths were partially caused by CTE, related to multiple NFL concussions suffered during their professional playing years. Cantu reached a similar conclusion as to Waters in an article published in Neurosurgery in 2007.

151. The following photographs, available from Brain-Pad Blog, show the contrast between a normal brain (depicted on the left) and Webster's autopsied brain (depicted on the right):



152. In response to Omalu's article on Webster, Casson of the NFL's MTBI Committee wrote a letter in July of 2005 to the editor of *Neurosurgery* asking that Omalu's article be retracted.

153. In 2008, Dr. Ann McKee (“McKee”) of the CSTE at BUSM examined the brain tissue of two other deceased NFL players: (a) John Grimsley (“Grimsley”) of the Houston Oilers, who died of a gunshot wound at the age of 45; and (b) and Tom McHale (“McHale”) of the Tampa Bay Buccaneers, Philadelphia Eagles and Miami Dolphins, who died of a drug overdose at the age of 45. McKee found that Grimsley and McHale’s brain tissue exhibited indications of CTE. As she stated, **“the easiest way to decrease the incidence of CTE [in contact sport athletes] is to decrease the number of concussions.”** (Emphases added). She further noted that “[t]here is overwhelming evidence that [CTE] is the result of repeated sublethal brain trauma.” A *Washington Post* article published in early 2009 reported the following comments by McKee with respect to her analysis of McHale’s brain:

"Is this something that happened by chance?" asked Ann McKee, a neuropathologist at Boston University pointing to pictures of McHale's brain that she said resembled that of a 72-year-old boxer. **"I can tell you I've been looking at brains for 22 years, and this is not a normal part of aging. This is not a normal part of the brain."** (Emphases added).

154. In response to McKee's studies, Casson continued his campaign of NFL-sponsored disinformation by characterizing each as an isolated incident from which no conclusion could be drawn and said he would wait to comment further until McKee's research was published in a peer-reviewed journal. When it was so published in 2009, Casson asserted that "there is not enough valid, reliable or objective scientific evidence at present to determine whether...repeat head impacts in professional football result in long[-]term brain damage." (Emphases added).

155. The increasing controversy drew the attention of Congress. On June 23, 2007, hearings on the NFL's compensation of retired players were held before the Commercial and Administrative Law Subcommittee of the Judiciary Committee of the United States House of Representatives ("C&A Subcommittee"). Plaintiff Boyd testified about post-retirement health problems he faced as a result of concussions he received while he played for the Minnesota Vikings. Goodell was one of those who testified at this hearing. In follow-up responses to the C&A Committee that Goodell sent in November of 2007, he continued to rely on the discredited survey research being undertaken by the MTBI Committee.

156. In response to these hearings and associated media reports, the League scheduled a Concussion Summit in June of 2007. Independent scientists, including Omalu, Cantu and Guskiewicz, presented their research to League and to representatives of the National Football League Players Association ("NFLPA"). As one contemporaneous news article reported:

"I'm not even sure we athletes know what a concussion is," said safety Troy Vincent, who also is president of the

While the NFL commission has focused on short-term effects of concussions, recent findings suggest players may suffer depression, dementia and other symptoms later in life. (Emphases added).

Current research with professional athletes has not shown that having more than one or two concussions leads to permanent problems.... It is important to understand that there is no magic number for how many concussions is too many. (Emphases added).

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The conflicted interests that burden many NFL trainers exacerbate the NFL's concussion problem. An emerging practice in sports medicine involves medical providers "auctioning off the right to be an NFL team's 'official' medical provider, hospital, or physician-group." The privilege of being selected comes with the right to advertise in one's promotional materials that her group has been named the "official healthcare provider" of a particular team. "In return, the team is provided with medical care for free or at reduced cost."

Former New York Jets lineman Peter Kendall efficiently articulated the conflict-ridden nature of team physicians' return-to-play decisions: "I see guys playing in games that I don't think a personal advocate would allow them to do[.] The doctor who is supposed to be looking out for you is also the same guy who may put you into a game that the team has to win. You're mixing business with medicine." Thus, in three sentences, Kendall summarized the risk involved with trainers practicing medicine under conflicted financial and medical interests.

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Pellman serves as *both* the Director of Medical Services for the New York Jets *and* as NFL Concussion Committee member. Because of Pellman's dual role, the Jets concussion policies and procedures have drawn heightened scrutiny from outside observers.

Pellman's management of the concussion Jets wide receiver Wayne Chrebet sustained on November 2, 2003 triggered significant criticism from both scientists and players. In this November 2, 2003 game against the New York Giants, Chrebet's concussion left him face down in an unconscious state for several minutes. Pellman elected to send Chrebet back into contact during the *same* game despite Chrebet's prolonged state of unconsciousness. Chrebet was subsequently placed on injured reserve for the remainder of the season. "Chrebet, 34, has recently acknowledged that he has bouts of depression and memory problems so severe that he cannot make the routine drive from his New Jersey home to his Long Island restaurant without a global positioning system." (Emphases partly in original; footnotes omitted).

160. ESPN The Magazine reported vividly on this incident:

"There's going to be some controversy about you going back to play." Elliot Pellman looks Wayne Chrebet in the eye in the fourth quarter of a tight game, Jets vs. Giants on Nov. 2, 2003, at the Meadowlands. A knee to the back of the head knocked Chrebet stone-cold unconscious a quarter earlier, and now the Jets' team doctor is putting the wideout through a series of mental tests. Pellman knows Chrebet has suffered a concussion, but the player is performing adequately on standard memory exercises. "This is very important for you," the portly physician tells the local hero, as was later reported in the *New York Daily News*. "This is very important for your career." Then he asks, "Are you okay?" When Chrebet replies, "I'm fine," Pellman sends him back in.

A couple of days after Wayne Chrebet is knocked senseless by the Giants, he is sluggish and tired, and his head aches. "It was stupid, trying to get back out there," he says. "That's just me trying to convince them and

myself that everything is all right." The Jets staff, including Pellman and Barr, diagnose Chrebet with postconcussion syndrome. Ten days after the game, the Jets place Chrebet on injured reserve.

Pellman makes no apologies. "Wayne returned and was fine," he tells the media. "He did not suffer additional injury. If he had suffered additional injury, his prognosis would be no different.

"Let's say I didn't allow him to return to play, and he played the following week," he continues. "The same thing could have happened. The decision about Wayne returning to play was based on scientific evaluation. As we stand now, that decision made no difference as to what's happening today.

"This decision is so that I can sleep well at night and so Wayne's wife can sleep well at night," he says about ending Chrebet's season.

"Nobody gets second-guessed."

161. This incident corroborates another factor contributing to the NFL's practices—that NFL player contracts are structured in a manner to incentivize underreporting of concussions. Such contracts typically do not guarantee payment to players beyond the season in which an injury occurs. If the player cannot pass the medical check-up at the commencement of the subsequent season, the contract is voided and the player may end up paying medical expenses for brain injuries or cognitive impairment incurred on the playing field. This system operates to discourage players from admitting to concussions. As the same 2009 article quoted earlier explained:

A sad consequence of the NFL's player contract scheme is the tendency of players to withhold concussion symptoms from their trainers and team management for fear of losing their jobs. Dr. Kenneth Podell, director of the Sports Concussion Safety Program at the Henry Ford Health System, summarizes the problematic situation: "The pressure

is intense; there's always someone on the bench waiting to take your place."

When team management becomes privy to a player's concussion history, the team holds all leveraging power in restructuring a player's contract. Players are faced with the following Hobson's choice: (i) accept a less lucrative contract or (ii) face employment termination. Dan Morgan, former Carolina Panthers linebacker, suffered at least five concussions during his tenure with the Panthers. Faced with the alternative of termination, Morgan "agreed to restructure his \$2 million roster bonus into payments of \$125,000 for each game played. Beyond acknowledging the team's concerns about subsequent concussions, the contract gave Morgan financial incentive not to reveal any concussion for treatment."

Even when a player is confident enough to disclose his concussive symptoms to a team trainer, he will not likely refuse a coach's orders to return to play for fear of losing his starting position in the lineup. A recent example of this situation involved the New England Patriots franchise. While playing linebacker for the Patriots in 2002, Ted Johnson sustained a severe concussion. After Johnson discussed his symptoms with his team trainer, the trainer advised Patriots coach Bill Belichick not to return Johnson to contact play until he became asymptomatic.

Belichick disregarded the trainer's advice by continually sending Johnson back into full contact practices. In defending his decision to return Johnson to play against the trainer's orders, Belichick said: "If [Johnson] felt so strongly that he didn't feel he was ready to practice[,] he should have told me." The flaw in Belichick's logic is that it assumes Johnson was confident enough in his job security to defy his coach's orders. If Johnson informed Belichick of his inability to return to play, he would have effectively terminated his own contract with the Patriots. (Emphases added).

162. In November of 2008, Greg Aiello ("Aiello") sounded a similar theme, saying to the press that "[h]undreds of thousands of people have played football and other

sports without experiencing any problem of this type and there continues to be considerable debate within the medical community on the precise long-term effects of concussions and how they relate to other risk factors." (Emphasis added). He neglected to mention that the debate was principally between the scientists in the pay of the League and scientists operating independently of the League.

163. The disingenuous nature of the NFL position was exposed in September 10, 2009, when the University of Michigan's Institute for Social Research published a study of retired NFL players commissioned by the NFL Player Care Foundation. The study found that retired NFL players are diagnosed with Alzheimer's disease or similar medical conditions far more often than the national population—including a rate of 19 times the normal incidence for men aged 30 through 49.

164. Despite these findings from a study that the League sponsored, the NFL continued to deny publicly any link between concussions on the playing field and dementia. A September 29, 2009 New York Times article reported as follows:

An N.F.L. spokesman, Greg Aiello, said in an e-mail message that the study did not formally diagnose dementia, that it was subject to shortcomings of telephone surveys and that "there are thousands of retired players who do not have memory problems."

"Memory disorders affect many people who never played football or other sports," Mr. Aiello said. "We are trying to understand it as it relates to our retired players."

As scrutiny of brain injuries in football players has escalated the past three years, with prominent professionals reporting cognitive problems and academic studies supporting a link more generally, the N.F.L. and its medical committee on concussions have steadfastly denied the existence of reliable data on the issue. The league pledged to pursue its own studies, including the one at the University of Michigan.

Dr. Ira Casson, a co-chairman of the concussions committee who has been the league's primary voice denying any evidence connecting N.F.L. football and dementia, said: "What I take from this report is there's a need for further studies to see whether or not this finding is going to pan out, if it's really there or not. I can see that the respondents believe they have been diagnosed. But the next step is to determine whether that is so."

The N.F.L. is conducting its own rigorous study of 120 retired players, with results expected within a few years. All neurological examinations are being conducted by Dr. Casson. (Emphases added).

165. After the publication of the University of Michigan study, the House Judiciary Committee commenced an inquiry into "Legal Issues Relating To Football Head Injuries" and held its first hearing on October 28, 2009. Representative John Conyers ("Conyers") summarized the evidence:

There appears to be growing evidence that playing football may be linked to long-term brain damage. For example, a 2003 University of North Carolina study found that professional players who suffered multiple concussions were three times more likely to suffer clinical depression than the general population. A follow-up study in 2005 showed NFL players suffering concussions had five times the rate of cognitive impairment. And retired players were 37 percent more likely to suffer from Alzheimer's than the population as a whole. Earlier this year, the University of Michigan released a study that found that 6.1 percent of NFL players over 50 years of age reported they had received a dementia-related diagnosis—a statistic five times higher than the national average. Players age 30 through 49 showed a rate of 1.9 percent of dementia-related diagnosis 19 times that of the national average.

The National Football League is performing its own long-term study, **and has largely sought to discredit these reports or some of the conclusions drawn from**

some of these reports. The football league described the reports as flawed.

Dr. Ira Casson, the co-chair of the NFL's Mild Traumatic Brain Injury Committee, denied the linkage on six separate occasions. When asked whether there was any linkage between playing football and CTE, Dr. Casson stated that it has never been scientifically, validly documented. The league said the recent University of Michigan study was flawed and that further study was necessary. The *New York Times* data released last week, was, they said, for self-promotional and lobbying purposes of the union. Given there is no consensus between the league and its players and the medical community about the causes of these cognitive disorders, it should come as no surprise there is little agreement about how to respond. (Emphases added).

166. Representative Linda Sanchez ("Sanchez"), who had participated in the 2007 hearings mentioned earlier, was present and stated:

There are increasing studies and a body of evidence that show that there is a significant risk to individuals who suffer repeated head trauma, whether it's in the NFL, in professional boxing, or even high school sports, and while there are those here today who will argue against the validity of some of these studies, there appears to be a preponderance of evidence that a number of professional athletes who suffer repeated head trauma experience physical and mental decline earlier than the general population at large, and it would seem to me—and I stated this to Commissioner Goodell at the last hearing that we held that it would be better for the NFL and the NFLPA to be proactive in alerting its players to the risks that they face, and it's my hope that in the discussion that we have here today, the NFL and the NFLPA will make continued improvements in educating players on the dangers they face by playing with a concussion, treating those athletes appropriately who do have concussions, and removing the stigma that pressures players to play through the injury, and one of the most recent quotes that was heard on November 29th, 2009, was an interview during the pregame show before the

Steelers' matchup with the Ravens when somebody said, basically, that he had been dinged up and got right back into the game and that, you know, just because somebody's having headaches, pretty much the quote is, you know, they need to suck it up and continue to play on, and the fact of the matter is that sucking it up and continuing to play on may mean very serious and grave consequences down the line.

Many witnesses that we have had before the Committee have testified about how the NFL, like it or not, influences the lower levels of football, and the actions that they take or the actions that they choose to ignore to take have significant impact on players at lower levels. The NFL, quite frankly, has vast resources available to its disposal to educate coaches and players and medical personnel on the proper way to handle a concussed player, and if they have all these resources available to them and are not addressing the problem, imagine how can we expect every high school or college to be able to properly treat a concussed player if that proper action isn't being taken at the very top levels of the sport? (Emphases added).

167. Despite this overwhelming evidence, Goodell refused to answer questions of whether NFL-related concussions led to cognitive decline among retired players. The Judiciary Committee played a televised interview of Casson denying any links between NFL players' multiple head injuries and subsequent cognitive deterioration.

168. Sanchez pressed the issue with Goodell during his testimony as follows:

Now, the question that I have for you is, I am a little concerned, and I hear the concern expressed by some of the witnesses on the panel today, that **the NFL sort of has this kind of blanket denial or minimizing of the fact that there may be this, you know, link. And it sort of reminds me of the tobacco companies pre-1990's when they kept saying no, there is no link between smoking and damage to your health or ill health effects. And they were forced to admit that that was incorrect through a spate of litigation in the 1990's.** And my question to you is wouldn't the league be better off legally, and wouldn't high school and college football

players be better off, if instead of trying to minimize this issue, the league took the opposite perspective and said, look, even if there is a risk, however minuscule, that there may be this link, so we really need to jump on top of it and make kids and parents aware of this so that there isn't this sort of sense that the NFL is really just slow walking the issue to death by saying, well, we have been studying the issue for 15 years, we are going to maybe study it another 15 more years, when there is already non-NFL paid for research that suggests that there is this very high correlation with cognitive impairment? Don't you think the league, you know, would be better off legally, and that our youth might be a little bit better off in terms of knowledge, if you guys just embraced that there is research that suggests this and admitted to it? (Emphases added).

Mr. GOODELL. Well, Congresswoman, I do believe that we have embraced the research, the medical study of this issue. As you point out——

Ms. SANCHEZ. You are talking about one study, and that is the NFL's study. You are not talking about the independent studies that have been conducted by other researchers. Am I correct in stating that?

Mr. GOODELL. I am not sure of your question.

Ms. SANCHEZ. There are other studies, research in dementia and CTE that show that there is a link. But again the league seems to downplay that and say, well, you know, we are conducting our own study and, you know, when we have that study completed then we will know.

Mr. GOODELL. No, I think what we are doing is because we have to a large extent driven this issue by making sure that we have medical professionals studying this issue. I am not a medical professional.

[Ms. SANCHEZ.] So my question is why are you even going through, you know, the charade of presenting the final analysis of going through this study if the determination, in my opinion, has already been made

by Dr. Casson and, you know, is denied in the pamphlet that they hand out to NFL players?

Mr. GOODELL. Well, first let me say I do not, and I think you stated that he is the only one examining these patients and the findings. That is not correct.

Ms. SANCHEZ. He is not controlling the examinations or the findings?

Mr. GOODELL. I would not say he is controlling that at all, no.

Ms. SANCHEZ. He is participating in it, though.

Mr. GOODELL. I do not know if he is participating in the examinations. I can find that out.

Ms. SANCHEZ. And he has been a consultant to the NFL, is that correct?

Mr. GOODELL. He has been on our MTBI committee for several years, yes.

Ms. SANCHEZ. **And some of the people who are participating in this study have other conflicts of interest. You know, one of the committee members on the concussion committee owns the company that makes and markets, mainly through its use by most of the NFL teams, the neuropsychological test that is used in the study. Isn't that true?**

Mr. GOODELL. I don't know the answer to that question, but I will find out for you.

Ms. SANCHEZ. **My suggestion would be, and my time has expired, but my suggestion would be that instead of having NFL-connected consultants and doctors, that perhaps the true findings of a truly unbiased study would be better conducted by people who have not been on the payroll or not been retained by the NFL in any capacity. (Emphases added).**

169. The NFL thereafter reacted to this barrage of criticism by having Casson and Viano, who had replaced Pellman as co-chairs of the MTBI Committee, resign, and suspending that Committee's research. The League also pledged to donate a paltry \$1 million to subsidize the CSTE's research on CTE.

170. On December 2, 2009, Goodell announced an update on concussion guidelines for the League's players. The statement outlined several changes. First, players who sustained a concussion should not return to practice or game play the same day if the following signs or symptoms are present: loss of consciousness, confusion, amnesia or other memory problems, abnormal neurological exam, new and persistent headache, or any other persistent concussion signs. Second, if a player is held from a game, clearance for return to play should be determined by both the team physician and an independent neurological consultant. Return to play should not be considered until the athlete is asymptomatic, both at rest and with exertion, has a normal neurological exam, and has normal neuropsychological testing. The NFL subsequently clarified that primary sports care physicians could be treated as independent neurological consultants.

171. Aiello, the League spokesperson who had made staunch denials of the link between concussions and brain injury as late as September of 2009, made the following admission in a December 20, 2009 interview with a reporter for the *New York Times*:

After weeks of transforming its approach to concussions and its research into their long-term effects among players, the N.F.L. not only announced Sunday that it would support research by its most vocal critics but also conceded publicly for the first time that concussions can have lasting consequences.

"It's quite obvious from the medical research that's been done that concussions can lead to long-term problems," the league spokesman Greg Aiello said in a telephone

interview. He was discussing how the league could donate \$1 million or more to the Center for the Study of Traumatic Encephalopathy at Boston University, whose discoveries of brain damage commonly associated with boxers in the brains of deceased football players were regularly discredited by the N.F.L.

Told that his statement was the first time any league official had publicly acknowledged any long-term effects of concussions, and that it contradicted past statements made by the league, its doctors and literature currently given to players, Aiello said: "We all share the same interest. That's as much as I'm going to say."

Since an Oct. 28 hearing before the House Judiciary Committee, when the league's approach to science was compared to that of the tobacco industry, the N.F.L. has accepted the resignations of the co-chairmen of its concussion committee and overhauled its policies toward concussion management. Players now must be cleared by brain-injury experts unaffiliated with the team, and cannot return to a game or practice in which they have shown any significant sign of concussion.

The second rule has since been recommended by an N.C.A.A. committee as standard policy for athletes in all sports, and will be considered by several state legislatures that have bills governing high school athletics before them.

The recent changes by the N.F.L. had amounted to tacit acknowledgments that it was no longer able to defend a position that conflicted with nearly all scientific understanding of head trauma.

Until recently, the league and its committee on concussions had consistently minimized evidence testifying to the risks of repeated brain trauma in N.F.L. players — from researchers like those at Boston University, to phone surveys the league itself commissioned, to demographic analysis of players known to have early-onset dementia. While discrediting such evidence, a pamphlet on concussions currently given to players states, "Research is

currently underway to determine if there are any long-term effects of concussion in N.F.L. athletes.”

That research study, conducted by the N.F.L.’s committee on concussions, was recently suspended amid strong criticism of its design and execution by outside experts, players and members of Congress.

“Mr. Aiello’s statement is long overdue — it’s a clear sign of how the culture of football has changed in recent months,” Dr. Robert Stern, a co-director of the Boston University center and its Alzheimer’s Disease Clinical and Research Program, said in a telephone interview.

“There is no doubt that repetitive blows to the head result in long-term problems in the brain, including progressive dementia. With the N.F.L. taking these recent actions, we are finally at a point to move forward in our research and ultimately solve this important problem — for professional athletes and collegiate and youth players.” (Emphases added).

172. Despite these concessions, the problem continued unabated. Thirty of 160 NFL players surveyed by the Associated Press in November of 2009 stated that they either failed to report or underreported concussion symptoms. Players admitted that they returned to play after a concussion feeling dazed or woozy or suffering from blurred vision.

173. In March of 2010, the MTBI Committee got a new name and new co-chairs. It was rechristened as the Head, Neck and Spine Medical Committee, and became jointly chaired by Dr. H. Hunt Batjer (“Batjer”) of Northwestern Memorial Hospital, and Dr. Richard Ellenbogen (“Ellenbogen”) of Harborview Medical Center in Seattle. Batjer and Ellenbogen replaced Casson and Viano, who in turn had replaced Pellman.

174. In a May 2010 Congressional hearing, Representative Anthony Weiner addressed Batjer and Ellenbogen as follows: “[y]ou have years of an infected system here, [and] your job is...to mop [it] up.” (Emphases added).

175. Batjer and Ellenbogen conceded in June of 2010 that the League's efforts with respect to concussions and brain injury were riddled with duplicity, conflicts of interest and shocking ineptitude. As was reported in a June 1, 2010 New York Times article:

They accused a fellow doctor of minimizing solid evidence of the dangers of football concussions. They concurred that data collected by the N.F.L.'s former brain-injury leadership was "infected," said that their committee should be assembled anew, and formally requested that the group's former chairman, Dr. Elliot Pellman, not speak at a conference Wednesday.

For the first time these remarks came not from outside critics of N.F.L. research but from those now in charge of it — Dr. H. Hunt Batjer and Dr. Richard G. Ellenbogen, prominent neurosurgeons who became co-chairmen of a new league committee in March. One week after two members of Congress accused the doctors of sounding too much like their predecessors, and on the eve of a league-sponsored symposium in Washington held by Johns Hopkins Medicine, Batjer and Ellenbogen made clear they planned to chart a new course.

The two doctors criticized Johns Hopkins's promotional brochure for Wednesday's conference — which was open only to N.F.L. medical personnel, other doctors and members of the United States Department of Defense — for playing down existing evidence of brain damage in retired football players.

The opening paragraph described the disease chronic traumatic encephalopathy as "now being reported in football players, although with unknown frequency." It added that these and related matters had been reported by the news media "with considerable hype around assertions of long-term harm to players from head injuries."

Batjer and Ellenbogen said that the frequency of reports of C.T.E. in players is not unknown — a Boston University research group has diagnosed it in all 12 former college and N.F.L. players of various ages it had tested for the condition.

“They aren’t assertions or hype — they are facts,” said Ellenbogen, the chief of neurological surgery at Harborview Medical Center in Seattle, who has been instrumental in drafting legislation to protect young athletes from head injuries.

He added: “Doctors were relatively ineffectual for 25 years on this issue. Then it’s on the front page and everything focuses like a laser beam and things begin to change from baby steps to giant steps forward protecting kids. From a doctor-patient perspective, it’s been the single best thing that has happened to this subject.”

Dr. Constantine G. Lyketsos, a professor of psychiatry and behavioral sciences at Johns Hopkins who is directing Wednesday’s conference, said in a telephone interview that he wrote the brochure and that the N.F.L. had no role with the event, other than providing financing. He defended his choice of words.

“We know of 12 cases” of C.T.E., Lyketsos said. “We don’t know how many don’t have it.”

Regarding news media coverage of the harm caused by repeated concussions in football players, Lyketsos said: “There is a concern that I have that the possibility of serious long-term consequences are being overemphasized without clear evidence. It could turn out correct. It could turn out incorrect. We don’t know.”

He added: “I worry that it might be a disservice. That’s a possibility.”

The league spokesman Greg Aiello declined to comment on Lyketsos’s statements, other than saying that the league has given \$1 million to the Boston University group to support its research.

The former leaders of the N.F.L. concussion committee generally agreed with Lyketsos, an attitude that ultimately came to the attention of Congress and led to several hearings on the subject of sports concussions in athletes of all ages. Batjer and Ellenbogen had a shaky debut before some frustrated members of the House Judiciary Committee during a forum in New York on

May 24, but in the following days they made sure they would no longer resemble their predecessors.

The doctors said the old committee's ongoing studies on helmets and retired players' cognitive decline — whose structure and data were strongly criticized by outside experts — would not be used in any way moving forward. They said they were influenced by a comment made to them last Monday by Representative Anthony D. Weiner, Democrat of New York: "You have years of an infected system here that your job is to some degree to mop up."

"The word 'infected' hit me right between the eyes," said Ellenbogen. He and Batjer became co-chairmen of the N.F.L. committee in March.

Batjer added: "We all had issues with some of the methodologies described, the inherent conflict of interest that was there in many areas that was not acceptable by any modern standards or not acceptable to us. I wouldn't put up with that, our universities wouldn't put up with that, and we don't want our professional reputations damaged by conflicts that were put upon us."

Batjer said that he and Ellenbogen had begun reconstituting their committee from scratch. He said that six members had been selected so far, none of them holdovers from the prior regime.

The doctors so wanted to distance themselves from the past that on Monday they requested that Pellman, who was scheduled to deliver some opening remarks at the Johns Hopkins symposium, be removed from the program. Pellman was the chairman of the N.F.L. concussion committee from 1994 to 2007 and stayed on it until he resigned in March. He remains the league's medical director and helped with the conference's logistics.

On Tuesday, an e-mail message was distributed to conference organizers saying that Pellman would not attend the conference for family-related reasons.

“Neither Rich nor I thought he should appear to represent the N.F.L. in what would look like a leadership role,” Batjer said. “It’s not about Elliot. It’s about a complete severance from all prior relationships from that committee.” (Emphases added).

176. As reported in a July 26, 2010 article in the New York Times, on June 10, 2010, the NFL issued a warning poster that was placed in the locker rooms of member clubs and was also turned into a pamphlet. A copy of the poster is reproduced below. It stands in stark contrast to the pamphlet issued by the League in April of 2007. This advice was never given previously by the NFL and was certainly not given to players who retired prior to June of 2010.

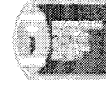
As the same article went on to note:

The league’s reversal is not necessarily complete. On April 30, an outside lawyer for the league, Lawrence L. Lamade, wrote a memo to the lead lawyer for the league’s and union’s joint disability plan, Douglas Ell, discrediting connections between football head trauma and cognitive decline. The letter, obtained by The New York Times, explained, “We can point to the current state of uncertainty in scientific and medical understanding” on the subject to deny players’ claims that their neurological impairments are related to football. (Emphases added).



CONCUSSION

A Must Read for NFL Players



Concussion Facts

Concussion is a brain injury that alters the way your brain functions

Concussion can occur from a blow to the head/body:

- following helmet to helmet contact, and / or
- contact with the ground, object or another player

Most concussions occur without being knocked unconscious

Severity of injury depends on many factors and is not known until symptoms resolve and brain function is back to normal

All concussions are not created equally. Each player is different, each injury is different and all injuries should be evaluated by your team medical staff

Concussion Symptoms

Different symptoms can occur and may not show up for several hours. Common symptoms include:

- Confusion
- Headache
- Amnesia / Difficulty remembering
- Balance problems
- Irritability
- Dizziness
- Difficulty concentrating
- Nausea
- Feeling sluggish, foggy or groggy
- Sensitivity to noise
- Sensitivity to light
- Double / fuzzy vision
- Slowed reaction time
- Feeling more emotional
- Sleep disturbances
- Loss of consciousness

Symptoms may worsen with physical or mental exertion (e.g. lifting, computer use, reading)

Why Should I Report My Symptoms?

- Practicing or playing while still experiencing symptoms can prolong the time to recover and return to play.
- Unlike other injuries, there may be significant consequences of “playing through” a concussion. Repetitive brain injury, when not treated promptly and properly may cause permanent damage to your brain.

What Should I Do If I Think I've Had a Concussion?

Report it. Never ignore symptoms even if they appear mild. Look out for your teammates. Tell your Athletic Trainer or Team Physician if you think you or a teammate may have had a concussion.

Get Checked Out. Your team medical staff has your health and well being as its first priority. They will manage your concussions according to NFL / NFLPA Guidelines which include being fully asymptomatic, both at rest and after exertion, having a normal neurologic examination, normal neuropsychological testing, and clearance to play by both the team medical staff and the independent neurologic consultant.

Take Care of Your Brain. According to the CDC*, "traumatic brain injury can cause a wide range of short- or long term changes affecting thinking, sensation, language, or emotions". These changes may lead to problems with memory and communication, personality changes, as well as depression and the early onset of dementia. Concussions and conditions resulting from repeated brain injury can change your life and your family's life forever.



Work smart. Use your head,
don't lead with it. Help make
our game safer. Other athletes
are watching...



*for more information about traumatic brain injury and concussion, go to <http://www.cdc.gov/concussion>

177. Yet even after this new warning, NFL players are still going out on the field after receiving significant concussions. In a September 19, 2010 posting by Sam Donellon on philly.com, it was noted:

A THOUSAND pardons. For the game plan, for the execution, for the ever-present "Not putting the guys in the right places" to succeed during Sunday's 27-20 loss to the Green Bay Packers.

[Philadelphia Eagles Head Coach] Andy Reid issued his familiar post-loss mea culpas yesterday, vowing to "tighten up" special teams play, execution particularly on offense, and even his play-calling.

The only thing he didn't apologize for was how, or why, two of his stars were allowed to re-enter the game after getting concussed Sunday afternoon at Lincoln Financial Field.

That's because in his mind, and apparently in the minds of too many still involved in the NFL, he and his medical staff did what it was supposed to do in the cases of Stewart Bradley and Kevin Kolb. Asked all the right questions, got all the right answers, sent both back into a game even after both had displayed, for a national audience to see, evidence of head trauma.

To wit:

Kolb lying face down for several seconds before rising slowly, grass hanging from his facemask, walking slowly from the field;

Bradley bouncing up after an inadvertent knee-to-helmet hit, only to stumble back down to the ground, clearly disoriented.

That's a key word, disoriented. It's used in those famous updated guidelines the NFL issued last December to teams regarding concussions in the wake of congressional hearings and some high-profile injuries, including the repeated concussions to former Eagle Brian Westbrook.

"A player who suffers a concussion should not return to play or practice on the same day," said an NFL release on those guidelines, which lists among symptoms "Loss of consciousness" and "Confusion as evidenced by disorientation to person, time or place; inability to respond appropriately to questions; or inability to remember assignments or plays."

So what are we missing here? Reid said repeatedly Sunday, and again yesterday, that appropriate answers were given to questions. He said Kolb's inability to remember plays was only evident after he returned to play, and he was yanked after a three-and-out series.

But both men were clearly disoriented when they first reached their feet, and this is where we tread into the NFL's continued ambiguity over what it views as serious head trauma. Was Bradley's stumble due to poor balance or dizziness? The guidelines say poor balance necessitates removal, dizziness not necessarily so. But what's the difference and how the hell can anyone tell? Aren't they the same thing?

178. As another example, the Concussion Blog reported on Austin Collie ("Collie"), a wide receiver who played for the Indianapolis Colts in 2010. Collie suffered a concussion in Week 9 of the regular season and was benched in Week 10. He returned in Week 11, and was withdrawn after playing part of that game because of "worsening symptoms." He was benched in Weeks 12-14, but returned in Week 15, only to receive yet another concussion.

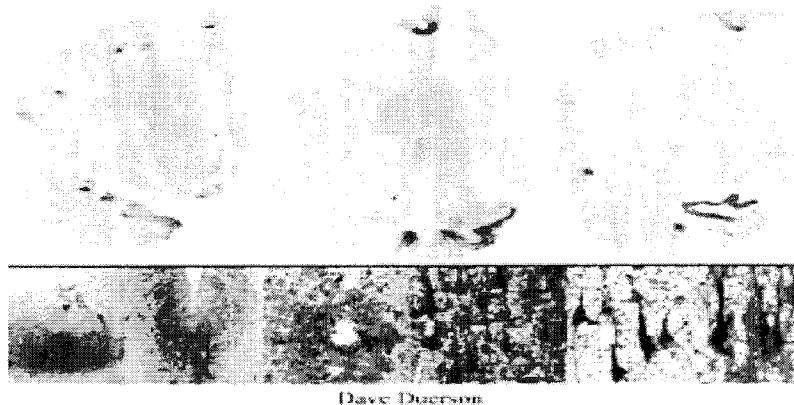
As Concussion Blog noted:

NFL "Policy" indicates that a player will not return from a concussion unless they pass all tests. Therefore if Indianapolis followed the "policy" then Collie was cleared and passed all tests by Week 11, and his first concussion resolved. The reports of more/worsening symptoms after 1st half of Pats game indicates that he MUST have sustained a second concussion. Then upon returning this week that would have meant that he cleared all tests and AGAIN sustained a concussion, his THIRD. Let me be clear here, you can only "aggravate" a concussion if you have not recovered from the first. And

a player SHOULD NOT be playing with an unresolved concussion, by "policy". ... The Colts already are spinning this one, but no matter how you look at it they either failed the "policy" or knowingly put him back into action with a concussion. At the very least they misreported the second. If he were returned in Week 11 and "aggravated" it then he was not properly handled the first time.

179. The plight of former NFL players suffering from brain injuries caused by their service in the game has continued. One example is provided by the case of Dave Duerson ("Duerson"), a former safety for the Chicago Bears and the New York Giants. After suffering months of headaches, blurred vision and deteriorating memory, Duerson committed suicide at the age of 50 on February 17, 2011. His final note asked that his brain be given to the NFL brain bank for evaluation.

180. On May 2, 2011, researchers at CTSE at Boston University reported that Duerson was suffering from CTE and released photographs of the autopsy of his brain. Examples of those photographs obtained from the website of CBS Chicago are reproduced below:



The top row of photographs depicts three half sections of Duerson's brain that exhibit multiple areas of damage (brown coloring) in the frontal and temporal cortex, hippocampus and

amygdala. The bottom row of photographs depicts microscopic images from these damaged areas, showing severe neurodegeneration. As CBS Chicago reported:

Dr. Robert Cantu, co-director of the CTSE, said at a news conference that such results normally are published first, but the Duerson family wanted them released earlier.

“It is our hope that through this research questions that go beyond our interests may be answered,” The Duerson family said in a statement. “Questions that lead to a safer game of football, from professional to Pop Warner; Questions that lead to better diagnostic tests for those alive; and Questions that lead to a cure; will all hopefully be answered.” (Emphases added).

181. When this information was reported, DeMaurice Smith, Executive Director of the NFLPA, stated that the fact that Duerson was suffering from CTE “makes it abundantly clear what the cost of football is for the men who played and the families. It seems to me that any decision or course of action that doesn’t recognize that as the truth is not only perpetuating a lie, but doing a disservice to what Dave feared and what he wanted to result from the donation of his brain to science.”

182. Another example is provided by the case of John Mackey (“Mackey”), the former tight end of the Chicago bears, who died in July of 2011 and for whom the 88 Plan described below was named. Mackey was diagnosed with frontotemporal dementia in 2007, forcing him to live full-time in an assisted living facility. The NFLPA refused to pay a disability income to him because it claimed that there was no proven direct link between brain injury and NFL game participation. When the 88 Plan came into being, he received payments pursuant to it, but they were far less than his family’s costs. Mackey made less than a total of \$500,000 during his decade-long NFL career. His wife, Sylvia, had to work as a flight attendant to supplement his NFL pension of \$2,500 a month after they sold their California home to provide

for his extensive medical care. The legendary Chicago Bears player, Gale Sayers, was asked about Mackey's demise by a reporter for the *Chicago Tribune* and his response was reported as follows: "Sayers feels the NFL could have done more to help Mackey during his final years. 'You know, John Mackey died at 60-something (69),' said Sayers. '(The NFL) could have helped him more, I felt. But they didn't, and the players (NFLPA) could have helped more, and it didn't happen.'"

183. On information and belief, proposals have been submitted to the NFL MTBI Committee about concussion concerns and the need to do regularized testing of players. To the best of Plaintiffs' knowledge, the League has never acted on them.

184. The NFL's conduct stands in sharp contrast to what has been done or promulgated by other sports or medical bodies.

185. For example, Rule 4.2.14 of the World Boxing Council's Rules and Regulations states: "[b]oxers that suffered concussion by KO, should not participate in sparring sessions for 45 days and no less than 30 days after concussive trauma, including but not limited to KO's, and should not compete in a boxing match in less than 75 days." (Emphases added).

186. The Second International Conference on Concussion in Sport met in Prague in 2004 and released the following statement: "[w]hen a player shows ANY symptoms or signs of a concussion ... the player should not be allowed to return to play in the current game or practice ... When in doubt, sit them out!" (Emphases added). This directive echoed the position taken by the First International Conference on Concussion in Sport, held in Vienna in 2001.

187. As ESPN has noted, “[a]ll standard U.S. guidelines, such as those first set by the American Academy of Neurology and the Colorado Medical Society, agree that athletes who lose consciousness should never return to play in the same game.” (Emphases added).

188. Another example is provided by the National Collegiate Athletic Association (“NCAA”), which also recognized inexcusably late the link between head impacts and brain injuries, not taking affirmative action until 2010. The NCAA is the subject of class action suits for this tardiness. Nevertheless, once it did act, it did so in a manner that was more decisive than the NFL. The NCAA’s webpage on concussion-related resources (see <http://www.ncaa.org/wps/portal/ncaahome?WCM_GLOBAL_CONTEXT=/ncaa/NCAA/Academics+and+Athletes/Personal+Welfare/Health+and+Safety/Concussion>) indicates that in an educational partnership with the Centers for Disease Control and Prevention. The NCAA has supplied each member college campus with two posters and two sets of fact sheets addressing concussion awareness, prevention, and management. It has issued the “NCAA Sports Medicine Handbook - Guideline on Concussions in the Athlete” that recommends best practices. And the NCAA requires each member college to develop a “Concussion Management Plan”. One exemplar plan offered on the NCAA’s website is the University of Georgia Athletic Association’s (“UGAA”) “Concussion Management Guidelines,” which reads as follows:

1. UGAA will require student-athletes to sign a statement in which student-athletes accept the responsibility for reporting their injuries and illnesses to the sports medicine staff, including signs and symptoms of concussions (attachment A). During the review and signing process student-athletes will watch a NCAA video on concussions and be provided with educational material on concussions (attachment B).

2. **UGAA will have on file and annually update an emergency action plan (attachment C) for each athletics venue to respond to student-athlete catastrophic injuries and illnesses**, including but not limited to concussions, heat illness, spine injury, cardiac arrest, respiratory distress (e.g. asthma), and sickle cell trait collapses. All athletics healthcare providers and coaches shall review and practice the plan annually. These sessions will be conducted prior to the start of the sport season. ...The UGAA compliance office will maintain a list of staff that have completed the requirement on file.

3. **UGAA sports medicine staff members shall be empowered to determine management and return-to-play of any ill or injured student-athlete, as he or she deems appropriate.** Conflicts or concerns will be forwarded to Ron Courson (director of sports medicine) and Fred Reifsteck, MD (head team physician) for remediation.

4. **UGAA shall have on file a written team physician-directed concussion management plan (attachment D) that specifically outlines the roles of athletics healthcare staff (e.g., physician, certified athletic trainer, nurse practitioner, physician assistant, neuropsychologist).** In addition, the following components have been specifically identified for the collegiate environment:

a. **UGAA coaches will receive a copy of the concussion management plan**, a fact sheet on concussions in sport, and view a video on concussions annually. The UGAA compliance office will maintain a list of staff that have completed the requirement on file.

b. **UGAA sports medicine staff members and other athletics healthcare providers will practice within the standards as established for their professional practice (e.g., team physician, certified athletic trainer, physical therapist, nurse practitioner, physician assistant, neurologist, neuropsychologist).**

c. **UGAA shall record a baseline assessment for each student-athlete in the sports of baseball, basketball, cheerleading, diving, equestrian, football, gymnastics,**

pole vaulting, soccer, and softball, at a minimum. In addition, a baseline assessment will be recorded for student-athletes with a known history of concussion. The same baseline assessment tools should be used post-injury at appropriate time intervals. The baseline assessment should consist of the use of: 1) symptoms checklist, 2) standardized balance assessment (Neurocom) and 3) neuropsychological testing (computerized IMPACT test). Neuropsychological testing has been shown to be effective in the evaluation and management of concussion. The neuropsychological testing program should be performed in consultation with a neuropsychologist. Post injury neuropsychological test data will be interpreted by a neuropsychologist prior to return to play. Neuropsychological testing has proven to be an effective tool in assessing neurocognitive changes following concussion and can serve as an important component of an institution's concussion management plan. However, neuropsychological tests should not be used as a standalone measure to diagnose the presence or absence of a concussion as UGAA uses a comprehensive assessment by its sports medicine staff.

d. When a student-athlete shows any signs, symptoms or behaviors consistent with a concussion, the athlete will be removed from practice or competition, by either a member of the coaching staff or sports medicine staff. If removed by a coaching staff member, the coach will refer the student-athlete for evaluation by a member of the sports medicine staff. During competitions, on the field of play injuries will be under the purview of the official and playing rules of the sport. UGAA staff will follow such rules and attend to medical situations as they arise. Visiting sport team members evaluated by UGAA sports medicine staff will be managed in the same manner as UGAA student-athletes.

e. A student-athlete diagnosed with a concussion will be withheld from the competition or practice and not return to activity for the remainder of that day. Student-athletes that sustain a concussion outside of their

sport will be managed in the same manner as those sustained during sport activity.

f. **The student-athlete will receive serial monitoring for deterioration.** Athletes will be provided with written home instructions (attachment E) upon discharge; preferably with a roommate, guardian, or someone that can follow the instructions.

g. **The student-athlete will be monitored for recurrence of symptoms both from physical exertion and also mental exertion,** such as reading, phone texting, computer games, watching film, athletic meetings, working on a computer, classroom work, or taking a test. Academic advisors and professors will be notified of student-athlete's concussion, with permission for release of information from the student-athlete.

h. **The student-athlete will be evaluated by a team physician as outlined within the concussion management plan.** Once asymptomatic and post-exertion assessments are within normal baseline limits, return to play shall follow a medically supervised stepwise process.

i. Final authority for Return-to-Play shall reside with the team physician or the physician's designee as noted in the concussion management flowchart.

5. **UGAA will document the incident, evaluation, continued management, and clearance of the student-athlete with a concussion.** Aggregate concussion numbers per sport will be reported to the Director of Athletics annually.

6. **Athletics staff, student-athletes and officials will continue to emphasize that purposeful or flagrant head or neck contact in any sport should not be permitted.**

B. Riddell's Participation With The NFL In Misrepresenting The Risk Of Repeated Head Impacts.

189. Riddell manufactures helmets for use by NFL players. Since 1989,

Riddell has been the official helmet for the League and is the only helmet manufacturer allowed to display its logo on helmets used in League games. Prior to the commencement of the 2010 season, Riddell renewed its contract with the League allowing it to continue as the NFL's primary helmet provider through 2014. The NFL has estimated that 75% of the helmets used in the League are manufactured by Riddell; Riddell estimated that the figure was 77%.

190. Riddell has long been aware of medical issues concerning concussions. Yet despite being the maker of the official helmet for the NFL, it did nothing to prevent the disinformation campaign engaged in by the League that is described in the preceding paragraphs.

191. Indeed, Riddell actively abetted the work of the NFL's MTBI Committee. In 1997, it became part of that Committee's project of assessing concussions and health consequences to NFL players by analyzing and reconstructing head impacts.

192. In 2006, Riddell sponsored a study that appeared in *Neurosurgery* that was co-authored by Lovell and Dr. Joe Maroon of the MTBI Committee and Dr. Mickey Collins of the University of Pittsburgh Medical Center who works closely with various NFL member clubs, that touted Riddell's "Revolution" helmet (introduced in 2002) as reducing the incidence of concussions in over 2000 high school athletes in Western Pennsylvania. Cantu publicly criticized the study as being worthless.

C. The NFL's Retirement Plan And Other Benefit Plans For Retired NFL Players And How They Are Inadequate.

193. The NFL's retirement and disability benefits are simply insufficient to provide sufficient medical services to retired NFL players who are at risk for CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions due to head impacts received during the period in which they played League football. These benefits are also inadequate to

defray the medical costs associated with the treatment of such cognitive-impairing conditions once they are diagnosed.

194. Retirement and disability benefits for former NFL players are provided pursuant to the "Bert Bell/Pete Rozelle Retirement Plan" (the "Plan"). The Plan is a merger of two prior plans in 1993. The Plan provides for retirement benefits, total and permanent ("T&P") disability benefits, line of duty disability benefits and death benefits.

195. As of December of 2010, only 3,154 former NFL players receive pension benefits under the Plan, for an annual outlay of \$63.7 million.

196. In August of 2010, the United States Department of Labor ("DoL") put the Plan on "endangered" status because the Plan's funded percentage was only 75%.¹ The DoL's letter to the Plan (available from its website at <<http://www.dol.gov/ebsa/pdf/e-notice092210001.pdf>>) noted that the Plan needed to devise a "funding improvement plan."

197. The Plan is run by a Retirement Board consisting of three persons selected by the NFLPA, three persons selected by the NFL Management Council and, in an ex officio capacity, the NFL Commissioner. The actuary for the Plan is Aon Corporation, executives of which, on information and belief, have ownership interests in the Chicago Bears, one of the NFL's member clubs.

¹ As the DoL explains at its website, <http://www.dol.gov/ebsa/criticalstatusnotices.html> : "[u]nder Federal pension law, if a multiemployer pension plan is determined to be in critical or endangered status, the plan must provide notice of this status to participants, beneficiaries, the bargaining parties, the Pension Benefit Guaranty Corporation and the Department of Labor. This requirement applies when a plan has funding or liquidity problems, or both, as described in the Federal law. If a plan is in critical status, adjustable benefits may be reduced and no lump sum distributions can be made. Pension plans in critical and endangered status are required to adopt a plan aimed at restoring the financial health of the pension plan."

198. Obtaining disability benefits under the Plan has been notoriously difficult. In 2010, only 289 of 464 eligible players who applied for disability payments were awarded any.

199. As noted above, on June 23, 2007, hearings on the NFL's compensation of retired players were held before C&A Subcommittee. Numerous retired players suffering severe disabilities as a result of their careers playing for the NFL, including Plaintiff Boyd, told their stories of being denied T&P and other benefits. Representative Sanchez summarized the evidence as follows:

After announcing this hearing and subsequent research, it has become clear that the NFL disability and pension benefits plans have sparked a significant amount of passionate critics. The various stories relayed by the retirees demonstrate concern not only with how the plan is structured but also about how it is administered.

The fundamental question then becomes whether this disability process is fair for the retired employees of the NFL. **The evidence suggests that the vast majority of former players needing benefits do not receive them. What is even more troubling is that through projects such as the NFL films, the NFL continues to profit off those very same players who are denied benefits. Essentially, is the NFL, a multibillion dollar organization, fairly treating the employees who helped build it?** (Emphases added).

200. Representative Conyers also summarized some of the evidence that had been presented to the subcommittee:

[T]he NFL's treatment of its retired players with respect to disability and pension benefits is problematic. As many of us know, the average football athlete is not a marquee player but plays in the league for less than 4 years and often retires because of injury. Upon retirement, he receives only \$14,500 in pension benefits, less than half the amount received by an average retired Major League baseball player.

Of 10,000 retired NFL players, it is estimated that less than 300 receive long-term disability payments. Several recent well-publicized cases highlight the resulting problems. For example, Pittsburgh Steelers center Mike Webster [“Webster”]. The court recently awarded his estate more than \$1.1 million in disability payments that the NFL’s Retirement Plan administrators claimed he was not entitled to receive.

Or take Brian DeMarco, former offensive lineman for the Jacksonville Jaguars. According to the Denver Post, Mr. DeMarco’s back was broken in 17 places and he retired due to severe health problems after the 1999 season. But he has never been able to get NFL disability benefits. His disabilities were so extensive that he can’t hold a telephone to his ear. In the last 4 years, Mr. DeMarco and his family have been homeless on three occasions.

I am concerned about the extent to which these issues are attributable to the administration of the NFL Retirement Plan, and I am troubled by the fact that arbitration is not readily available in cases of disability claims. The process for resolving disputes concerning player benefits and submission of disputes to a benefit arbitrator does not usually apply to retirement or disability benefits. Rather, the plan’s Retirement Board hears appeals of its own decisions instead of submitting appeals to an arbitrator, and this practice has drawn significant criticism. (Emphases added).

201. On September 18, 2007, a hearing on oversight of the NFL retirement system was held before the United States Senate Committee on Commerce, Science and Transportation. Similar testimony about denials of benefits was presented by NFL retired players.

202. On April 8, 2008, the Congressional Research Service (“CRS”) issued a report on “Former NFL Players: Disabilities, Benefits And Related Issues.” It concluded:

The subject of players’ injuries, disabilities, and benefits is a complex one, and, accordingly, there are a host of

issues surrounding this subject. Although the number and type of benefits have grown over the years, older retirees, particularly those who played prior to 1982, have fewer benefits available to them than their successors have. Yet, this subset of former players might have the greatest financial and medical needs.

203. As the CRS report also explained, there were substantial obstacles in obtaining T&P disability benefits under the Plan:

Overall, from July 1, 1993, through June 26, 2007, 1,052 individuals applied for LOD or T&P disability benefits: 428 applications were approved; 576 were denied; and 48 are pending. The approval rate, which does not include the cases that are pending, is 42%. The following series of statements shows the status of applications at each step of the process.

--1,052 applications submitted for disability benefits.

--358 (34%) applications approved.

--675 (64%) applications denied.

--19 (2%) applications are pending.

--223 (33% of 675) applications denied at the initial stage were appealed.

--69 (31%) approved on appeal.

--132 (60%) denied on appeal.

--22 (10%) appeals are pending.

--32 (24% of 132) applicants whose appeals were denied filed a lawsuit.

--1 (3%) lawsuit resulted in a reversal of the Retirement Board's decision.

204. As the CRS report also noted, as of October 27, 2007, only 154 NFL retired players were receiving T&P disability benefits.

205. There also exists a separate health benefit plan for retired or former NFL players known as the “88 Plan.” The 88 Plan was created in August of 2007, apparently partly in response to the congressional hearings cited above. It is designed to assist players who are

vested under the Plan and who are determined to have dementia (including Alzheimer's Disease), as this condition is defined in the 88 Plan. The 88 Plan will pay the cost of medical and custodial care for eligible players, including institutional custodial care, institutional charges, home custodial care provided by an unrelated third party, physician services, durable medical equipment, and prescription medicine. For eligible players who are institutionalized as an in-patient, the maximum annual benefit is currently \$100,000 pursuant to the 2011 CBA (\$130,000 beginning in 2016). For eligible players who are not institutionalized as an in-patient, the maximum annual benefit is \$88,000 (\$116,000 beginning in 2016). 88 Plan benefits may be paid on behalf of an eligible player even if that player is also receiving T&P disability benefits from the Plan, but only if he is in the "Inactive" category. As of December 2010, only 151 NFL players were receiving benefits under the 88 Plan.

206. There also exists an “NFL Player Care Plan” subsidized by the NFL. The NFL Player Care Plan provides a uniform administrative framework for a range of programs that benefit eligible former NFL players. Currently, these benefits are: (a) joint replacement benefits; (b) assisted living benefits; (c) discount prescription drug benefits; (d) Medicare supplement insurance benefits; (e) spine treatment benefits; (f) neurological care benefits; and (g) life insurance benefits. These benefits can be terminated summarily. For example, it has been reported that Bruce Schwager, who played at various NFL training camps and now suffers from dementia, was told on March 14, 2011 that his bills for treatment at a dementia-care facility in Sugarland, Texas will no longer be paid.

207. In sum, the NFL, perhaps the richest professional sports league ever, has demonstrated a repeated unwillingness to take adequate care of retired players who are suffering

from the consequences of on-field head injuries incurred during their respective League careers and have made the game of professional football in this country what it is today.

COUNT I
Action For Declaratory Relief

208. Plaintiffs repeat and reallege each of the allegations contained in the foregoing paragraphs.

209. There is a case and controversy among Plaintiffs on the one hand and the Defendants on the other.

210. Pursuant to 28 U.S.C. § 2201, Plaintiffs seek a declaration as to the following.

211. They seek a declaration that Defendants knew or reasonably should have known that the repeated traumatic brain and head impacts, as well as concussions, suffered by Plaintiffs while playing NFL football were likely to put them at excess risk to neurodegenerative disorders and diseases including but not limited to CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions.

212. Plaintiffs seek a declaration that the Defendants, through their voluntary undertakings, had a duty to advise players and protect players from these risks.

213. Plaintiffs seek a declaration that the Defendants willfully and intentionally misled Plaintiffs concerning these medical risks.

214. Plaintiffs seek a declaration that the Defendants thereby recklessly endangered Plaintiffs.

COUNT II
Action For Negligence

215. Plaintiffs repeat and reallege each of the allegations contained in the foregoing paragraphs.

216. The NFL has historically assumed a gratuitous independent tort duty to create and enforce rules that protect the health and safety of its players, and it has violated Section 323 of the Restatement (Second) of Torts, and the common law.

217. Throughout the history of the NFL, the League has purported to exercise its duty to protect the health and safety of its players by implementing rules, policies and regulations in a purported attempt to best protect its players.

218. By enacting rules to protect the health and safety of its players, the NFL has repeatedly confirmed its duty to take reasonable and prudent actions to protect the health and safety of its players when known and foreseeable risks exist.

219. The NFL breached its duty to its players, including Plaintiffs, to use ordinary care to protect the physical and mental health of players by implementing standardized post-concussion guidelines and by failing to implement mandatory rules that would prevent a player who suffered a mild traumatic brain injury from re-entering a football game or practice.

220. Throughout the many years that the NFL has repeatedly established its duty to protect the health and safety of its players when known and foreseeable risks exist, until August 14, 2007, the NFL failed to create and implement league-wide guidelines concerning the treatment and monitoring of players who suffer a concussive brain injury during a game.

221. The NFL failed to establish any adequate guidelines or policies to protect the mental health and safety of its players. As explained above, the guidelines that the League offered in 2007 were false and misleading and failed to apprise Plaintiffs of the risks associated with on-field concussions.

222. The NFL's failure to fulfill its assumed duty to protect its players includes, but is not limited to, the following failures:

- (a) Failure to use reasonable care in the research of the concussions issue;
- (b) Failure to use reasonable care in responding to independent scientific studies on the risk of concussions and brain disease in sport, and in football in particular;
- (c) Failure to use reasonable care in denying the scientific evidence connecting NFL play to the risk of an occurrence of brain disease;
- (d) Failure to use reasonable care in appointing competent and independent doctors and scientists to the MTBI Committee; and
- (e) Failure to use reasonable care in protecting Plaintiffs from the risk of brain disease and the sequelae of the concussions experienced by Plaintiffs.

223. Plaintiffs relied on the Defendants' misrepresentations (including affirmative misrepresentation and omissions) detailed herein to their detriment.

224. The NFL breached its assumed duty to protect the health and safety of its players by subjecting NFL players to an increased risk of concussive brain injury.

225. The NFL failed to provide complete, current, and competent information and directions to NFL athletic trainers, physicians, and coaches regarding concussive brain injuries and its prevention, symptoms, and treatment.

226. If the NFL would have taken the necessary steps to oversee and protect the NFL players, including Plaintiffs, by developing and implementing necessary guidelines, policies, and procedures; providing reasonably safe helmets; and educating and training all persons involved with the NFL clubs in the recognition, prevention, and treatment of concussive brain injuries, the NFL players, such as Plaintiffs, would not have suffered from the subject condition or the effects of that condition, would have recovered more rapidly, or would not have

suffered long-term brain damage, including CTE, MCI, Alzheimer's disease or similar cognitive-impairing condition.

227. Under all of the above circumstances, it was foreseeable that the NFL's violations of its duties would cause or substantially contribute to personal injuries suffered by the Plaintiffs.

228. The NFL committed acts of omission and commission, which collectively and severally, constituted negligence. The League's negligence was a proximate and producing cause of injuries suffered by Plaintiffs.

229. In addition to the injuries suffered by Plaintiffs described herein, defendants' negligent conduct caused or contributed to the personal injuries of the individual named plaintiffs including neurodegenerative disorders and diseases including but not limited to CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions, past and future medical expenses, past and future loss of earnings, past and future emotional distress, and punitive damages.

230. As a result of the injuries of Plaintiffs, they are entitled to damages, as alleged herein or allowed by law.

COUNT III
Action For Fraud

231. Plaintiffs repeat and reallege each of the allegations contained in the foregoing paragraphs.

232. Until June of 2010, the NFL, through its MTBI Committee, the statements and actions of its Commissioner and its other agents and employees, made material misrepresentations (and omissions) to its players, former players, the Congress and the public at

large that there was no link between concussions and brain injury, including CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions.

233. The persons who made the misrepresentations as agents of the NFL and the NFL knew the statements were false.

234. The persons who made the misrepresentations as agents of the NFL and the NFL intended to defraud the Plaintiffs.

235. The Plaintiffs justifiably relied on these misrepresentations to their detriment in getting care for their injuries.

236. The Plaintiffs were damaged by these misrepresentations.

237. In addition to the injuries suffered by Plaintiffs described herein, defendants' fraudulent conduct caused or contributed to the personal injuries of the individual named plaintiffs including neurodegenerative disorders and diseases including by not limited to CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions, past and future medical expenses, past and future loss of earnings, past and future emotional distress, and punitive damages.

238. As a result of the injuries of Plaintiffs, they are entitled to the damages, as alleged herein or allowed by law.

COUNT IV
Fraudulent Concealment

239. Plaintiffs repeat and allege each of the allegations contained in the foregoing paragraphs.

240. Defendants and their MTBI Committee concealed and misrepresented information to the Plaintiffs and the public regarding the brain disease risks of repeated head impacts and concussions in NFL play, over the time period relevant to this Complaint.

241. At no time prior to June 2010 did Defendants correct their misrepresentations. Even after June 2010, Defendants have failed to adequately advise Plaintiffs and the public of these risks.

242. Defendants knew their statements in regard to concussions and medical risks were false, and they knew the Plaintiffs would specifically rely on these statements.

243. In addition to the injuries suffered by Plaintiffs described herein, Defendants' negligent conduct caused or contributed to the personal injuries of the Plaintiffs including neurodegenerative disorders and diseases including but not limited to CTE, MCI, Alzheimer's disease or similar cognitive-impairing conditions, past and future medical expenses, past and future loss of earnings, past and future emotional distress, and punitive damages.

244. As a result of the injuries of Plaintiffs, they are entitled to the damages, as alleged herein or allowed by law.

COUNT V
Action for Loss of Consortium

245. Plaintiffs repeat and reallege each of the allegations contained in the foregoing paragraphs.

246. Spouses of Plaintiffs have suffered damages in the past and will suffer damages in the future as a direct result of the injuries described above.

247. Spouses of Plaintiffs seek to recover for past and future loss of consortium and other harm to their relationship and marriage.

248. As a result of the injuries of Plaintiffs, spouses of Plaintiffs are entitled to the damages, as alleged herein or allowed by law.

PRAYER FOR RELIEF

WHEREFORE, Plaintiffs pray for judgment with respect to their Complaint as follows:

1. With respect to Count I, granting the declaratory relief requested pursuant to 28 U.S.C. § 2201;
2. With respect to Counts II through V, granting compensatory and punitive damages where applicable;
3. With respect to all counts, awarding Plaintiffs their costs and disbursements in this action, including reasonable attorneys' fees, to the extent permitted by law;
4. With respect to all counts, granting Plaintiffs such other and further relief as may be appropriate.

DEMAND FOR JURY TRIAL

Plaintiffs demand a trial by jury on all matters so triable.

Dated: January 9, 2012

Respectfully Submitted,

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